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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,326	12/12/2003	Stadjana Petrovic	38898-0059	9081
23577 7590 03/12/2010				
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225 KING STREET WEST				
10TH FLOOR				
TORONTO, ON M5V 3M2				
CANADA				
EXAMINER				
JOHNSON, CARLTON				
ART UNIT		PAPER NUMBER		
2436				
MAIL DATE		DELIVERY MODE		
03/12/2010		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/733,326

Applicant(s)

PETROVIC, SLADJANA

Examiner

CARLTON V. JOHNSON

Art Unit

2436

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 November 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 6-16, 18-26 and 28-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-16, 18-26 and 28-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB06)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ ~~Notice of Informal Patent Application~~
- 6) ☐ Other: _____

DETAILED ACTION

1. This action is in response to application amendments filed on 11-19-2009.
2. Claims **1 - 4, 6 - 16, 18 - 26, 28 - 34** are pending. Claims **1, 13, 23** have been amended. Claims **5, 17, 27** have been cancelled. Claims **1, 13, 23** are independent. This application was filed 12-23-2003.

Response to Arguments

3. Applicant's arguments have been fully considered but were not persuasive.
 - 3.1 A 103 rejection (*see Remarks Page 9-11*) based on multiple references is a legitimate technique according to the MPEP. The current application is rejected based on the Williams, Woods and LEVY prior art references. The set of references are in the same field of endeavor as the claimed invention, the secure transfer of session information. The 103 rejection allows portions of a claimed invention to come from different prior art references.

All references (Williams, Wood, and LEVY) disclose the transfer of session information such as identifiers, time/date information such as timestamps, and session state information between network-connected systems (servers, clients). A timestamp is a parameter available for transfer between systems in the management of session information.

3.2 Applicant argues that the referenced prior art does not disclose for Claims 1, 13, and 23, *transmitting a redirect message to said browser, thereby redirecting said request to the second server; and "in conjunction with said transmitting, transmitting said session ID and said timestamp directly to the second server".* .

Williams discloses redirecting a request to a second server or computer system. (see Williams paragraph [0067], lines 12-18: redirection of session information) If the request is redirected between network-connected systems, then the request is transmitted from one system to another system. The LEVY prior art discloses the transfer a session ID and a data and time (a timestamp) parameter. (LEVY paragraph [0070], lines 3-9: record is created; record consists of session_id, date and time (timestamp); messages including record are sent between to server)

3.3 Applicant argues for claims 7, 8, 19, 20, 29, 30, *rejection based on Bachman prior art.*

Bachman prior art is not used to disclose the transfer of session information between network-connected systems but is used to disclose a time-out capability. Williams, Woods, and Levy disclose the claims limitations for the independent claims.

3.4 Applicant argues that the referenced prior art does not disclose, *redirect message is transmitted to a destination distinct from the destination to which the session ID and the timestamp are transmitted.*

The Woods prior art specifically discloses a redirect response message transmitted in response to a redirect request. The redirect request and the initial

request are not transmitted to the same destination. The specification does not disclose the transmission of a redirect request message to a browser but a request message is received and that particular request message is redirected to another server.

The specification discloses redirecting a request to another or a second server. The initial request is not a specific redirect request but a request message and that request message is redirected to another server.

3.5 The Williams prior art discloses the transfer of a timestamp parameter (within the token data structure) between two network-connected systems. (see Williams paragraph [0050], lines 1-5: token may include an optional timestamp)

The Woods prior art discloses the direct transfer of session state parameters such as a session ID parameter and a time/date parameter between network-connected entities. (see Wood paragraph [0050], lines 15-17: some parameters can be passed directly between systems) The Williams and Woods combination discloses the transfer of a session ID and a timestamp parameter. -

The LEVY prior art discloses the transfer of both a session ID parameter and a time and date or timestamp parameter between network-connected systems. (LEVY paragraph [0070], lines 3-9: record is created; record consists of session_id, date and time (timestamp))

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1, 13, 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There does not appear to be disclosure for the claim limitation: "transmitting a redirect message to said browser, thereby redirecting said request to the second server". The specification discloses redirecting a request to another server. There is no disclosure that the initial request is a redirect request. The system determines that the initial message must be redirected to another server. There is no disclosure that the initial message is initially a redirect message. The final disposition is for the message to be redirected.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims **1 - 4, 6, 9 - 16, 18, 21 - 26, 28, 31 - 34** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Williams et al.** (US PG PUB No. **20030005118**) in

view of **Wood et al.** (US PG PUB No. **20040210771**) and further in view of **LEVY et al.** (US PG PUB No. **20020124074**).

With Regards to Claims 1, 23, Williams discloses a method, computer program product of secure session management for a web farm, the web farm including a first server and a second server, the second server having a requested web page, the method comprising:

- a) receiving, at the first server, a request for the requested web page from a browser, said request including an encrypted session token associated with a session; (see Williams paragraph [0016], lines 1-4: session management; paragraph [0019], lines 1-5: request processing; paragraph [0016], lines 1-4: session token; paragraph [0050], lines 10-16; paragraph [0051], lines 14-16: encryption utilized for security; paragraph [0016], lines 1-4: program product)

Furthermore, Williams discloses the following:

- b) decrypting said encrypted session token at the first server to obtain a session information; (see Williams paragraph [0020], lines 8-11: validate (must decryption required to process encrypted information) session information, process encrypted session information; paragraph [0016], lines 1-4: program product)
- d) verifying said session. (see Williams paragraph [0020], lines 8-11; paragraph [0074], lines 7-11: validate session token information, client and session identification information; paragraph [0016], lines 1-4: program product)

Furthermore, Williams discloses transmitting a redirect message to said browser.

thereby redirecting said request to the second server. (see Williams paragraph [0067], lines 12-18: redirection of session information)

Williams does not specifically disclose including the transmission of said session token to the second server in a redirect request.

However, Wood discloses:

- c) in conjunction with said transmitting, transmitting said session token to the second server; (see Wood paragraph [0044], lines 8-14; paragraph [0051], lines 1-3: session token with redirection request)

It would have been obvious to one of ordinary skill in the art to modify Williams for transmitting a session token and session state information to a second server as taught by Wood. One of ordinary skill in the art would have been motivated to employ the teachings of Wood to upgrade session credentials and maintain session continuity. (see Wood paragraph [0016], lines 11-16)

Williams-Wood does not specifically disclose the transfer of a session ID parameter and a time and date (timestamp) parameter between two network connected systems (servers).

However, LEVY discloses: for a); b): wherein including transmitting said session ID and timestamp directly to the second server. (LEVY paragraph [0070], lines 3-9: record is created; record consists of session_id, date and time (timestamp))

The explicit transfer of a session ID and a timestamp (both parameters) between network-connected systems is disclosed.

It would have been obvious to one of ordinary skill in the art to modify Williams-Wood for the transfer of a session ID parameter and time and date (timestamp) parameter as taught by LEVY. One of ordinary skill in the art would have been motivated to employ the teachings of LEVY to enable real-time monitoring of systems to greatly assist in the management of sessions between network-connected systems. (see LEVY paragraph [0027], lines 1-5)

With Regards to Claims 2, 24, Williams discloses the method, computer program product claimed in claims 1, 23, further including creating a new session token, encrypting said new session token at the second server to produce a new encrypted session token, and transmitting a response to said browser from the second server, wherein said response includes said new encrypted session token. (see Williams paragraph [0016], lines 7-13; paragraph [0016], lines 4-7: generate new encrypted session token and transfer; paragraph [0016], lines 1-4: software implementation, program product)

With Regards to Claims 3, 5, 15, 25, Williams discloses the method, system, computer program product claimed in claims 2, 13, 14, 23, 24, wherein said creating a new session token includes generating a new session ID and updating said timestamp. (see Williams paragraph [0062], lines 9-16; paragraph [0050], lines 1-5: session token, session ID and timestamp; paragraph [0016], lines 1-4: software implementation, program product)

With Regards to Claims 4, 16, 26, Williams discloses the method, system, computer program product claimed in claims 2, 14, 24, further including a step of updating a common session database by replacing said session information with said new session token in said common session database. (see Williams paragraph [0069], lines 9-15: database for session token information storage paragraph [0016], lines 1-4: software implementation, program product)

Williams does not disclose the transfer of a session ID parameter and a time and date (timestamp) parameter between two network connected systems.

However, LEVY discloses transmitting said session ID and timestamp directly to the second server. (LEVY paragraph [0070], lines 3-9: record is created; record consists of session_id, date and time (timestamp))

The explicit transfer of a session ID and a timestamp (both parameters) between network-connected systems is disclosed.

It would have been obvious to one of ordinary skill in the art to modify Williams for the transfer of a session ID parameter and time and date (timestamp) parameter as taught by LEVY. One of ordinary skill in the art would have been motivated to employ the teachings of LEVY to enable real-time monitoring of systems to greatly assist in the management of sessions between network-connected systems. (see LEVY paragraph [0027], lines 1-5)

With Regards to Claims 6, 18, 28, Williams discloses the method, system, computer

program product claimed in claims 1, 17, 23, wherein a common session database contains a stored session ID and a stored timestamp, and wherein said verifying includes comparing said session ID and said timestamp with said stored session ID and said stored timestamp. (see Williams paragraph [0069], lines 9-15: database for session token information storage; paragraph [0062], lines 9-16; paragraph [0050], lines 1-5: session token, session ID and timestamp; paragraph [0020], lines 8-11: verification session information paragraph [0016], lines 1-4: software implementation, program product)

With Regards to Claims 9, 21, 31, Williams discloses the method, system, computer program product claimed in claims 1, 13, 23, wherein said step of transmitting includes incorporating said session information into a URL. (see Williams paragraph [0044], lines 8-12: URL processing techniques utilized paragraph [0016], lines 1-4: software implementation, program product)

Williams-Wood does not specifically disclose incorporating a session ID parameter and a time and data (timestamp) parameter into a record.

However, LEVY discloses incorporating said session ID and timestamp into a record. (LEVY paragraph [0070], lines 3-9: record is created; record consists of session_id, date and time (timestamp))

The explicit transfer of a session ID and a timestamp (both parameters) between network-connected systems is disclosed.

It would have been obvious to one of ordinary skill in the art to modify Williams for

incorporating said a session ID parameter and a time and date (timestamp) parameter into a record as taught by LEVY. One of ordinary skill in the art would have been motivated to employ the teachings of LEVY to enable real-time monitoring of systems to greatly assist in the management of sessions between network-connected systems. (see LEVY paragraph [0027], lines 1-5)

With Regards to Claims 10, 32, Williams discloses the method, computer program product claimed in claims 1, 23, wherein a session management web service performs said step of verifying, said session management web service being accessible to said first server and said second server, and wherein said verifying includes comparing said session information with stored session data. (see Williams paragraph [0020], lines 8-11: session information verification paragraph [0016], lines 1-4: software implementation, program product)

Williams does not specifically disclose transferring said session ID and time and date (timestamp) between systems.

However, LEVY discloses transferring said session ID and timestamp between systems. (LEVY paragraph [0070], lines 3-9: record is created; record consists of session_id, date and time (timestamp))

The explicit transfer of a session ID and a timestamp (both parameters) between network-connected systems is disclosed.

It would have been obvious to one of ordinary skill in the art to modify Williams for the transfer of session ID and time and date (timestamp) between systems as taught by

LEVY. One of ordinary skill in the art would have been motivated to employ the teachings of LEVY to enable real-time monitoring of systems to greatly assist in the management of sessions between network-connected systems. (see LEVY paragraph [0027], lines 1-5)

With Regards to Claims 11, 33, Williams discloses the method, computer program product claimed in claims 10, 32, wherein the web farm further includes a common session database containing said stored session data. (see Williams paragraph [0013], lines 5-9; paragraph [0036], lines 3-4: web farms, set of interconnected web servers paragraph [0016], lines 1-4: software implementation, program product)

With Regards to Claims 12, 22, 34, Williams discloses the method, system, computer program product claimed in claims 1, 13, 23, wherein said requested web page includes a web resource selected from the group including an applet, an HTML page, a Java server page, and an Active server page. (see Williams paragraph [0044], lines 3-8; paragraph [0042], lines 8-15: protected resource, a HTML web page paragraph [0016], lines 1-4: software implementation, program product)

With Regards to Claim 13, Williams discloses a system for secure session management, the system being coupled to a network and receiving a request for a requested web page from a browser via the network, the request including an encrypted session token, the system comprising:

- b) a second server including the requested web page; (see Williams paragraph [0013], lines 5-9: multiple servers; paragraph [0044], lines 3-8; paragraph [0042], lines 8-15: resource requested, a HTML web page)

Furthermore, Williams discloses:

- c) a common session database including stored session data; (see Williams paragraph [0069], lines 9-15: database for session token information storage)

Furthermore, Williams discloses the following:

- a) a first server including a first request handler for receiving the request and decrypting the encrypted session token to produce a session information. (see Williams paragraph [0013], lines 5-9; paragraph [0050], lines 10-16: multiple servers, encrypted; paragraph [0020], lines 8-11: validate (i.e. must decrypt in order to process) session information)
- d) a session management web service, accessible to said first server and said second server and including a validation component for comparing said session token with said stored session data; (see Williams paragraph [0020], lines 8-11: session verification information)

Furthermore, Williams discloses wherein said first request handler adapted to transmit a redirect message to said browser, thereby redirecting the request to said second server. (see Williams paragraph [0067], lines 12-18: redirection capabilities)

Williams does not specifically disclose the transfer of session state information between two servers.

However, Wood discloses:

- e) transmit the session information to said second server. (see Wood paragraph [0044], lines 8-14; paragraph [0051], lines 1-3: session token with redirection request; paragraph [0050], lines 15-17: direct transfer of parameters between two systems)

It would have been obvious to one of ordinary skill in the art to modify Williams to enable including transmitting said session token to the second server as taught by Wood. One of ordinary skill in the art would have been motivated to employ the teachings of Wood in order to enable the capability to upgrade session credentials and maintain session continuity. (see Wood paragraph [0016], lines 11-16)

Williams does not specifically disclose transmitting said session ID and timestamp between systems.

However, LEVY discloses transmitting said session ID and timestamp between systems. (LEVY paragraph [0070], lines 3-9: record is created; record consists of session_id, date and time (timestamp))

The explicit transfer of a session ID and a timestamp (both parameters) between network-connected systems is disclosed.

It would have been obvious to one of ordinary skill in the art to modify Williams for transmitting said session ID and timestamp between systems as taught by LEVY. One of ordinary skill in the art would have been motivated to employ the teachings of LEVY to enable real-time monitoring of systems to greatly assist in the management of sessions between network-connected systems. (see LEVY paragraph [0027],

lines 1-5)

With Regards to Claim 14, Williams discloses the system claimed in claim 13, wherein said session management web service includes a token generator for creating a new session token for said second server, and wherein said second server includes a second request handler, said second request handler encrypting said new session token to produce a new encrypted session token and transmitting a response to said browser, wherein said response includes said new encrypted session token. (see Williams paragraph [0016], lines 7-10; paragraph [0016], lines 4-7: new session token generated and transferred; paragraph [0050], lines 10-16; paragraph [0051], lines 14-16: encrypted session token information)

8. Claims **7, 8, 19, 20, 29, 30** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Williams-Wood-LEVY** and further in view of **Bachman et al.** (US Patent No. **5,907,621**).

With Regards to Claims 7, 19, 29, Williams discloses the method, system, computer program product claimed in claims 1, 14, 23. (see Williams paragraph [0050], lines 1-5 : time parameter usage and processing; paragraph [0016], lines 1-4: software implementation, program product)

Williams does not specifically disclose a time out processing capability.

However, Bachman discloses wherein including determining whether a session has

timed out, said step of determining including determining an elapsed time between said timestamp and a current server time, and comparing said elapsed time with a predetermined maximum time to determine whether said session has timed out. (see Bachman col. 1, lines 65-67: session management; col. 4, lines 11-17; col. 6, lines 10-19: process time out condition)

It would have been obvious to one of ordinary skill in the art to modify Williams to process a time out condition as taught by Bachman. One of ordinary skill in the art would have been motivated to employ the teachings of Bachman to create a secure communications session between server and client systems and avoid distracting the client with the placement of token information within the page. (see Bachman col. 1, lines 65-67; col. 2, lines 15-17)

With Regards to Claims 8, 20, 30, Williams discloses the method, system, computer program product claimed in claims 7, 19, 29. (see Williams paragraph [0050], lines 1-5: time parameter usage and processing; paragraph [0016], lines 1-4: software implementation, program product)

Williams does not specifically disclose a time out processing capability.

However Bachman discloses wherein includes closing said session if said session has timed out. (see Bachman col. 1, lines 65-67: session management; col. 4, lines 11-17; col. 6, lines 10-19: process time out condition, session erased, closed)

It would have been obvious to one of ordinary skill in the art to modify Williams to process a time out condition as taught by Bachman. One of ordinary skill in the art

would have been motivated to employ the teachings of Bachman to create a secure communications session between server and client systems and avoid distracting the client with the placement of token information within the page. (see Bachman col. 1, lines 65-67; col. 2, lines 15-17)

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlton V. Johnson whose telephone number is 571-270-1032. The examiner can normally be reached on Monday thru Friday , 8:00 - 5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nasser Moazzami/
Supervisory Patent Examiner, Art Unit 2436

Carlton V. Johnson
Examiner
Art Unit 2436

CVJ
March 1, 2010